From: <u>Mark Hansen</u>

To: <u>Maria Martinez</u>; <u>Paige Delgado</u>; <u>John Martin</u>

Subject: URGENT -Evaluation of EPA Air Monitoring Results from Venice, LA

Date: 05/10/2010 04:14 PM

Administrator is in area. Need asap today Sent by Blackberry Mark Hansen Associate Director for Prevention and Response Superfund Division U.S. EPA Region 6 Dallas, Texas 75202 Cell Phone 214 789-2162

From: Lawrence Starfield Sent: 05/10/2010 04:39 PM EDT

To: Mark Hansen

Cc: "Sam Coleman" <coleman.sam@epa.gov>

Subject: Fw: Evaluation of EPA Air Monitoring Results from Venice, LA

Can someone get me a reaction to this hydrogen sulfide data?

- 1. Is it likely from the spill (or other sources)?
- 2. Are these levels of concern?

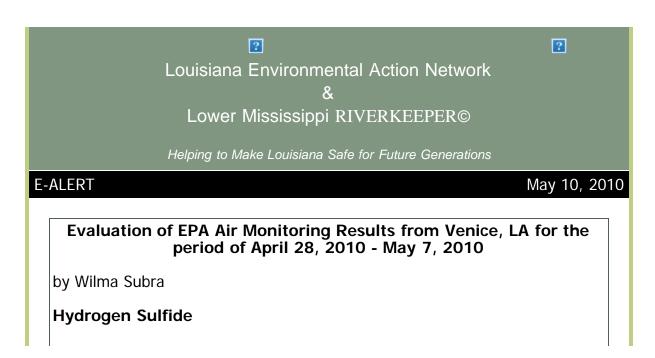
Larry

Sent by EPA Wireless E-Mail Services

From: Paul Orr [paul@lmrk.org] Sent: 05/10/2010 01:21 PM AST

To: Lawrence Starfield

Subject: Evaluation of EPA Air Monitoring Results from Venice, LA



Odor Threshold for Hydrogen Sulfide: 0.5 ppb Physical Reaction Symptoms: 5 to 10 ppb

Acute Physical Health Symptoms:

Irritates eyes
Irritates nose, throat and lungs
Nausea, dizziness, confusion, headache

Venice Hydrogen Sulfide Air Monitoring Results for the period of April 28, 2010 - May 7, 2010

Date: Hydrogen Sulfide (parts per billion):

April 28 None Detected April 29 No Data April 30 No Data May 1 No Data May 2 30 ppb May 3 1,192 ppb May 4 46 ppb May 5 1,010 ppb May 6 1,000 ppb May 7 280 ppb

The results of the Hydrogen Sulfide air monitoring in Venice indicates that the concentration from May 2 through May 7 exceeded the odor threshold and Physical Health Symptom concentrations. The Hydrogen Sulfide concentrations on May 3, 5 & 6 exceeded the Physical Reaction Symptoms concentrations by a factor of 100 to 120 times. The Physical Reaction Symptoms have been reported by individuals living and visiting in Venice.

Volatile Organic Chemicals

Louisiana Ambient Air Standards for Volatile Organic Chemicals:

The Louisiana Ambient Air Standards for the most toxic Volatile Organic Chemicals range from 0.25 ppb to 3.76 ppb Annual Average.

- 1,1,2,2-Tetrachloroethane 0.25 ppb
- Benzene 3.76 ppb

The Ambient Air Standards for the remaining Volatile Organic Chemicals range from 5.49 to 61.25 ppb Annual Average.

- 1 and 2-nitropropane 5.49 ppb
- Methylene Chloride 61.25 ppb

Acute Physical Health Symptoms:

Irritation of eyes, skin, skin rashes Irritate nose, throat and lungs Headaches Dizziness, light headed Weakness Nausea Confusion

Venice Volatile Organic Chemicals Air Monitoring Results for the period of April 28, 2010 - May 7, 2010

Date: Hydrogen Sulfide (parts per billion):

April 28 None Detected April 29 None Detected April 30 3,084 ppb May 1 923 ppb May 2 3,416 ppb May 3 780 ppb 1,243 ppb May 4 May 5 37 ppb 483 ppb May 6 May 7 None Detected

The results of the Volatile Organic Chemicals air monitoring indicates that the concentrations from April 30 through May 6 may have exceeded the Louisiana Ambient Air Standards for specific species of Volatile Organic Chemicals. The Volatile Organic Chemical concentrations on April 30 and May 2 may have exceeded the highest concentration of Annual Average Standard by as much 50 times. Specific chemicals that make up the total Volatile Organic Chemical concentrations are needed to further evaluate the results. This information has been requested from the Environmental Protection Agency. The Acute Physical Symptoms associated with the Volatile Organic Chemicals have been reported by individuals living and visiting in Venice.

Support this vital work today!

Yes! I want to help make Louisiana safe for us and for future generations!

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